

Title (en)

FLUOROALKYL GROUP-CONTAINING CURABLE ORGANOPOLYSILOXANE COMPOSITION, CURED PRODUCT THEREOF, AND TRANSDUCER OR THE LIKE PROVIDED WITH CURED PRODUCT

Title (de)

FLUORALKYLGRUPPENHALTIGE HÄRTBARE ORGANOPOLYSILOXANZUSAMMENSETZUNG, GEHÄRTETES PRODUKT DARAUS UND WANDLER ODER DERGLEICHEN MIT GEHÄRTETEM PRODUKT

Title (fr)

COMPOSITION D'ORGANOPOLYSILOXANE DURCISSABLE CONTENANT UN GROUPE FLUOROALKYLE, PRODUIT DURCI ASSOCIÉ, ET TRANSDUCTEUR OU ANALOGUE POURVU DU PRODUIT DURCI

Publication

EP 3626781 A4 20210303 (EN)

Application

EP 18802915 A 20180502

Priority

- JP 2017099138 A 20170518
- JP 2018017480 W 20180502

Abstract (en)

[origin: EP3626781A1] [Problems] To provide a curable organopolysiloxane composition which can be easily processed into a film shape and has a high specific dielectric constant, high dielectric breakdown strength, and a low Young's modulus, allowing for a high energy density to be achieved, in addition to having excellent mechanical strength (specifically, tensile strength, tear strength, elongation percentage, etc.) when used as a dielectric layer in a transducer, along with the use thereof.[Resolution Means] Provided are: a fluoroalkyl group-containing curable organopolysiloxane composition which can be cured by an addition reaction and which is obtained using an organopolysiloxane containing an alkenyl group and a fluoroalkyl group; an organohydrogen polysiloxane having SiH at both terminals of a molecular chain but not having a fluoroalkyl group; and a linear fluoroalkyl group-containing organohydrogen polysiloxane or a branched fluoroalkyl group-containing organohydrogen polysiloxane having T units; along with the use thereof.

IPC 8 full level

C08L 83/08 (2006.01); **C08G 77/00** (2006.01); **C08G 77/12** (2006.01); **C08G 77/20** (2006.01); **C08G 77/24** (2006.01); **C08L 83/04** (2006.01); **C08L 83/05** (2006.01); **C09D 183/04** (2006.01); **C09D 183/08** (2006.01); **H10N 30/20** (2023.01); **H10N 30/30** (2023.01); **H10N 30/50** (2023.01); **H10N 30/857** (2023.01)

CPC (source: EP KR US)

C08G 77/08 (2013.01 - KR); **C08G 77/12** (2013.01 - EP KR US); **C08G 77/20** (2013.01 - EP US); **C08G 77/24** (2013.01 - EP KR US); **C08G 77/80** (2013.01 - EP US); **C08J 5/18** (2013.01 - KR); **C08L 83/04** (2013.01 - EP KR); **C08L 83/08** (2013.01 - EP KR US); **C09D 183/04** (2013.01 - EP); **C09D 183/08** (2013.01 - EP); **H10N 30/50** (2023.02 - US); **H10N 30/857** (2023.02 - EP KR US); **C08L 2203/20** (2013.01 - US); **C08L 2205/02** (2013.01 - US); **C08L 2312/00** (2013.01 - US)

C-Set (source: EP)

1. **C08L 83/04** + **C08K 5/56** + **C08L 83/00**
2. **C08L 83/08** + **C08K 5/56** + **C08L 83/00**
3. **C09D 183/08** + **C08L 83/00**
4. **C09D 183/04** + **C08L 83/00**

Citation (search report)

- [E] EP 3447082 A1 20190227 - DOW CORNING TORAY CO LTD [JP]
- [XA] US 2005038183 A1 20050217 - AHN DONGCHAN [US], et al
- [A] US 2014175504 A1 20140626 - KOBAYASHI YUKITO [JP], et al
- See also references of WO 2018211981A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3626781 A1 20200325; **EP 3626781 A4 20210303**; **EP 3626781 B1 20240626**; CN 110573576 A 20191213; CN 110573576 B 20210924; JP 7100631 B2 20220713; JP WO2018211981 A1 20200319; KR 102561358 B1 20230801; KR 20200008128 A 20200123; TW 201917174 A 20190501; TW I768041 B 20220621; US 11479670 B2 20221025; US 2020071527 A1 20200305; WO 2018211981 A1 20181122

DOCDB simple family (application)

EP 18802915 A 20180502; CN 201880027438 A 20180502; JP 2018017480 W 20180502; JP 2019519171 A 20180502; KR 20197035411 A 20180502; TW 107115881 A 20180510; US 201816613781 A 20180502